

REMARKS

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 1-34 are now present in the application. The specification, title, drawings, and claims 1-4, 30, 32 and 33 have been amended. Claims 1 and 30 are independent. Reconsideration of this application, as amended, is respectfully requested.

Allowable Subject Matter

The Examiner has indicated that dependent claims 3, 4, 32 and 33 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. Applicants greatly appreciate the indication of allowable subject matter by the Examiner. As the Examiner will note, in view of the foregoing amendments, all pending claims should be in condition for allowance.

Drawings Objections

The drawings have been objected under 37 C.F.R. § 1.83(a). Applicants have submitted three (3) sheets of corrected formal drawings to address the Examiner's requested changes. Accordingly, Applicants respectfully submit that this objection has been obviated and/or rendered moot. Reconsideration and withdrawal of the Examiner's drawings objections are respectfully requested.

Specification Objections

The title has been objected to due to its non-descriptiveness. In view of the foregoing amendments, in which the Examiner's helpful suggestions have been followed, it is respectfully submitted that this objection has been addressed. Reconsideration and withdrawal of this objection are respectfully requested.

In addition, the specification has been amended to conform with the amendments to the drawings. Applicants respectfully submit that no new matter is entered. Entry of the above amendments to the specification is earnestly solicited.

Claim Objections

Claims 1 and 30 have been objected to due to the presence of minor informalities. In view of the foregoing amendments, it is respectfully submitted that this objection has been addressed. Reconsideration and withdrawal of this objection are respectfully requested.

Claim Rejections Under 35 U.S.C. §§ 102 & 103

Claims 1, 2, and 5-29 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Raychaudhuri, U.S. Patent Application Publication No. US 2004/0140758. Claims 30, 31 and 34 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Raychaudhuri. These rejections are respectfully traversed.

In light of the foregoing amendments to the claims, Applicants respectfully submit that these rejections have been obviated and/or rendered moot. As the Examiner will note, independent claims 1 and 30 have been amended.

Independent claim 1 has been amended to recite a combination of elements including “a nanostructured organic electroluminescent recovery layer having nanoscale metal particles therein”.

Independent claim 30 has been amended to recite a combination of elements including “a first nanostructured organic electroluminescent recovery layer having first nanoscale metal second nanoscale metal particles therein”.

Support for the above combinations of elements can be found in FIGs. 1-5 of the instant application as originally filed. Applicants respectfully submit that the above combinations of elements as set forth in amended independent claims 1 and 30 are not disclosed nor suggested by the reference relied on by the Examiner.

Raychaudhuri discloses an OLED device including a transmission enhancement layer 109 or 109x (see FIGs. 4 and 5). Raychaudhuri also discloses that the transmission enhancement layer 109 or 109x includes conductive or nonconductive materials such as ITO, IZO, etc. (see paragraph [0068]). However, Raychaudhuri fails to teach that the transmission enhancement layer 109 or 109x has any nanoscale metal particles in the transmission enhancement layer 109 or 109x. Therefore, Raychaudhuri fails to teach the above combinations of elements as recited in claims 1 and 30.

The Examiner further alleged that it would be obvious to provide the OLED device shown in FIG. 3 of Raychaudhuri with additional nanostructured organic electroluminescent recovery layer shown in FIG. 5 for enhancing transmission. Applicants respectfully disagree.

The OLED device in FIG. 3 of Raychaudhuri is a down-emitting organic light-emitting device. However, the OLED device in FIG. 5 of Raychaudhuri is a top-emitting organic light-

emitting device. By providing the additional nanostructured organic electroluminescent recovery layer shown in FIG. 5 of Raychaudhuri in the down-emitting OLED device in FIG. 3 of Raychaudhuri, it would reduce the luminance in the down-emitting direction of the OLED device in FIG. 3 of Raychaudhuri due to the light leakage in the top-emitting direction. Therefore, one skilled in the art would not have the motivation to provide the organic electroluminescent device shown in FIG. 3 of Raychaudhuri with the additional nanostructured organic electroluminescent recovery layer shown in FIG. 5 of Raychaudhuri as the Examiner suggested.

Since Raychaudhuri fails to teach each and every limitation of amended independent claims 1 and 30 or their dependent claims, Applicants respectfully submit that independent claims 1 and 30 and their dependent claims clearly define over the teachings of Raychaudhuri. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 and 103 are respectfully requested.

CONCLUSION

Since the remaining patents cited by the Examiner have not been utilized to reject the claims, but merely to show the state of the prior art, no further comments are necessary with respect thereto.

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Joe McKinney Muncy, Registration No. 32,334 at (703) 205-8000 in the Washington, D.C. area.

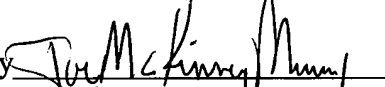
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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Dated: July 20, 2005

Respectfully submitted,

By 

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AMENDMENTS TO THE DRAWINGS

Attached hereto are three (3) sheets of corrected formal drawings that comply with the provisions of 37 C.F.R. § 1.84. The corrected formal drawings incorporate the following drawing changes:

In Fig. 1, the organic luminescent layer 140 is amended to illustrated the stacked organic luminescent layers.

Fig. 5B has been added to show the feature that the first nanostructured organic electroluminescent recovery layer 520 is on the first electrode 530 and is between the first electrode 530 and the organic luminescent layer 540.

Figs. 5C and 5D have been added to show the feature that the second nanostructured organic electroluminescent recovery layer 560 is on the organic luminescent layer 540 and is between the organic luminescent layer 540 and the second electrode 550.

It is respectfully requested that the corrected formal drawings be approved and made a part of the record of the above-identified application.